## **AMENDMENTS TO THE CLAIMS**

Prior to examination of the application please amend the claims as follows:

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1. (Original) A method for improving the specificity of a ligation reaction carried out between a first double stranded polynucleotide having a single stranded portion and a second polynucleotide having a complementary single stranded portion, said second polynucleotide being present in a sample comprising a mixture of different polynucleotides, comprising:

contacting the sample, under hybridising conditions, with the first polynucleotide and one or more third polynucleotide(s), wherein the third polynucleotide(s) comprises a single stranded portion that differs from the single stranded portion of the first polynucleotide by at least one base substitution, and carrying out a ligation reaction.

- 2. (Original) A method according to claim 1, wherein the third polynucleotide is a double stranded polynucleotide having said single stranded portion.
- 3. (Currently amended) A method according to claim 1 or claim 2, wherein the single stranded portion on each of the first, second and third polynucleotides is from 3 to 6 bases in length.
- 4. (Currently amended) A method according to claim 3, wherein the single stranded portion is 4 bases in length.
- 5. (Currently amended) A method according to any preceding claim, claim 1 wherein the single stranded portion of the third polynucleotide differs from the single stranded portion of the first polynucleotide by one base.
- 6. (Currently amended) A method according to any preceding claim claim 1, wherein the ligase is T4 DNA ligase.
- 7. (New) A method according to claim 2, wherein the single stranded portion on each of the first, second and third polynucleotides is from 3 to 6 bases in length.

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8. (New) A method according to claim 7, wherein the single stranded portion is 4 bases in length.

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- 9. (New) A method according to claim 2 wherein the single stranded portion of the third polynucleotide differs from the single stranded portion of the first polynucleotide by one base.
- 10. (New) A method according to claim 3 wherein the single stranded portion of the third polynucleotide differs from the single stranded portion of the first polynucleotide by one base.
- 11. (New) A method according to claim 4 wherein the single stranded portion of the third polynucleotide differs from the single stranded portion of the first polynucleotide by one base.
- 12. (New) A method according to claim 7 wherein the single stranded portion of the third polynucleotide differs from the single stranded portion of the first polynucleotide by one base.
- 13. (New) A method according to claim 8 wherein the single stranded portion of the third polynucleotide differs from the single stranded portion of the first polynucleotide by one base.
- 14. (New) A method according to claim 2, wherein the ligase is T4 DNA ligase.
- 15. (New) A method according to claim 3, wherein the ligase is T4 DNA ligase.
- 15. (New) A method according to claim 4, wherein the ligase is T4 DNA ligase.
- 16. (New) A method according to claim 5, wherein the ligase is T4 DNA ligase.

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ligase.

17. (New) A method according to claim 9, wherein the ligase is T4 DNA

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- 18. (New) A method according to claim 10, wherein the ligase is T4 DNA ligase.
- 19. (New) A method according to claim 11, wherein the ligase is T4 DNA ligase.
- 20. (New) A method according to claim 12, wherein the ligase is T4 DNA ligase.
- 21. (New) A method according to claim 13, wherein the ligase is T4 DNA ligase.